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Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals

Sub-Committee of Experts on the Transport of Dangerous Goods

Fifty-third session
Geneva, 25 June-4 July 2018
Item 3 of the provisional agenda
Listing, classification and packaging

Organic peroxides: new formulations to be listed in 2.5.3.2.4 and IBC 520

Transmitted by the expert from the European Chemical Industry Council (CEFIC)*

Introduction

1. Since a few new peroxides and formulations have become commercially available, there is a need to update the list under 2.5.3.2.4 and packing instruction IBC520. A list of new products, proposed classification, the accompanying competent authority approval references and a summary of the supporting test data are given in Annex to this proposal.

Proposals

2. CEFIC proposes to include one new entry in the list of currently assigned organic peroxides under 2.5.3.2.4 and two new entries to be included in packing instruction IBC520, as follows:

* In accordance with the programme of work of the Sub-Committee for 2017–2018 approved by the Committee at its eighth session (see ST/SG/AC.10/C.3/100, paragraph 98 and ST/SG/AC.10/44, para. 14).

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Proposed amendments to the list of currently assigned organic peroxides under 2.5.3.2.4

Change the following entry as indicated

ORGANIC PEROXIDE	Concentration (%)	Diluent type A (%)	Diluent type B 1) (%)	Inert solid (%)	Water	Packing Method	Control temperature (°C)	Emergency temperature (°C)	Number (Generic entry)	Subsidiary risks and remarks
Change:										
DI-(4-TERT-BUTYL CYCLO HEXYL) PEROXYDI CARBONATE	≤ 42 as a paste					~~OP7~~ OP8	35	40	~~3116~~ 3118	

Proposed amendments to 4.1.4.2, Packing instruction IBC520

Add the following entries under UN3119 as indicated

UN No.	Organic peroxide	Type of IBC	Maximum quantity (litres)	Control temperature	Emergency Temperature
3119	**ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED**				
	ADD NEW entries:				
	tert-Amyl peroxypivalate, not more than 42% as a stable dispersion in water	31HA1	1000	0 °C	+10 °C
	tert-Butyl peroxypivalate, not more than 42% in a diluent type A	31HA1 31A	1000 1250	10 °C 10 °C	15 °C 15 °C

Annex

Test results of new organic peroxides and formulations to be added/amended (2.5.3.2.4 or IBC520)

No	Product	packaging	UN	*Detonation*	*P/T / C.1*	*Deflagration / C.2*	*Koenen/ E.1*	*DPVT/ E.2*	*(mod) Trauzl F.3 or F.4 or F5*	*SADT (H.3 or H.4)*	Competent Authority approval number
1	Di-(4-tert-butylcyclohexyl) peroxydicarbonate, ≤ 42% as a paste	OP8	3118	Test A.6 No	<2170kPa, No	0.33 mm/s, No	< 1mm ("O"), No	<1.0 mm (10g), Low	F.4 4.6 ml Low	H.4 45 °C (400ml)	NL TNO 16 EM/0225
2	tert-Amyl peroxypivalate, not more than 42% as a stable dispersion in water	OP8 31HA1	3119	Test A.1 (77%) No	<2170kPa, No	0.0 mm/s, No	<1.0mm ("O"), No	<1.0 mm (10g), Low	F.4 1.6 ml, No	H.3, isothermal calorimetry 20°C,	NL TNO 17EM/0337
3	tert-Butyl peroxypivalate, not more than 42% in a diluent type A	OP8 31HA1 31A	3119	Test A.1 (75%) No	220 ms (75%), Yes slowly	0.08 mm/s (75%) N0	<1.0mm ("A") (50%) Low	<3.5 mm (10g) (50%) Low	F.5 10.5 J/g (55%) Low	H.3 isothermal calorimetry 25°C	NL TNO 8DV3/2130 (IBC 31HA1) NL TNO 6DV3/1071 (IBC 31A)